

RECEIVED

NOV 20 2002

TECH CENTER 1600/2900



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,676

DATE: 11/13/2002

TIME: 16:33:51

#10

Input Set : D:\pat.ST25.txt

Output Set: N:\CRF4\11132002\I724676.raw

ENTERED

ENTERED

```

3 <110> APPLICANT: Compugen LTD
5 <120> TITLE OF INVENTION: Variants of alternative splicing
7 <130> FILE REFERENCE: 129181.4 Compugen
9 <140> CURRENT APPLICATION NUMBER: 09/724,676
10 <141> CURRENT FILING DATE: 2000-11-28
12 <160> NUMBER OF SEQ ID NOS: 97222
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 745
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
21 <400> SEQUENCE: 1
22 cgggggtgcc cttcttccct gcggaggagg ggcctgggag gtcgcgttgg cgggagggag      60
24 gttacctttc ccagtctcgc tctggccgcc tgagccagga ggaagcagcg gcgaggtctg      120
26 cgggagggcat ggcgggagct ccggacgagc gccggcgggg cccgcggca ggggagcagc      180
28 tgcagcagca acacgtctct tgccaggtct tccccgagcg tctggcccag gggaatcccc      240
30 agcaagggtt cttctccagc ttcttcacca gcaaccagaa gtgccagctt aggtcctga      300
32 agacgctgga gacaagtagg agccatgacc tggaggctgt ggttccacag aatgggtctg      360
34 agaccgggtg ggcgaggaag ggcctgggca acacctggcc aggggcttca ggttcagcac      420
36 agagtctaga cagactgggc atcatggggg ctgggttggg agcctgaggc tcagtttccc      480
38 cactagaggt ggcgctgaga cccttttctg cgtgtttttt ggcttgtgga atgaatttgt      540
40 ctgccctttt ttgtcactca ctgttgtgac agatcctccg atttcttaca taagtattgc      600
42 agccacactg tgacttcagg gtaagggtga ggccaagttt taaagtgcc gccagggttaa      660
44 ttaaggcaca caaaggctgt aaaaatgtaa aaatgtaatt aaggcatacc aaggctgtaa      720
46 aaatataaaa gcagttttgc aaacc
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 754
51 <212> TYPE: DNA
52 <213> ORGANISM: Homo sapiens
54 <220> FEATURE:
55 <221> NAME/KEY: misc_feature
56 <222> LOCATION: (14)..(14)
57 <223> OTHER INFORMATION: n is a,c,g, or t
59 <220> FEATURE:
60 <221> NAME/KEY: misc_feature
61 <222> LOCATION: (23)..(23)
62 <223> OTHER INFORMATION: n is a,c,g, or t
64 <220> FEATURE:
65 <221> NAME/KEY: misc_feature
66 <222> LOCATION: (25)..(26)
67 <223> OTHER INFORMATION: n is a,c,g, or t
69 <400> SEQUENCE: 2
70 tgcattggaat ttgnacgaga ccntnntgaa ccaccggcct gtgactgctg tggagatcca      60

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,676

DATE: 11/13/2002

TIME: 16:33:51

Input Set : D:\pat.ST25.txt

Output Set: N:\CRF4\11132002\I724676.raw

```

72 gctgatggtg gaagagagtg aagagcggct cacggaggag cagattgaag ctcttctcca 120
74 caccgtcacc agcattctgc ctgcagagcc agaggctgag cagaagaaga atacaaacag 180
76 caatgtggca atggacgaag aggacccagc atagaagagc acagctggcc ccggcgtttc 240
78 atgaagtcag aaggcctggc agccatttcc tggacgttga gaggattgtt tatttgattt 300
80 ttatcctcat cccagcaggc ctggctttgt ggtagtttg gtacatcaca aaaataagtt 360
82 aaaaagaaat atttgtgcct tggggagaag aaacatggtg aaaacaggct gaggttgta 420
84 gggcagagag ctgaagggtg ggacagtgc cgcggacccc tctgtgcttg aaagatttcc 480
86 tccacggcct ttgccccagt tgtggggagg tctctgtgca cagcggggaa aatgcttggt 540
88 tcgccttttg tggggccatgt cctaattagt ttcattctgt tccctgggaa cttactaagg 600
90 ggcccagagc actgttgga gtctggttag agtccccaga gatttactct aagttaaaat 660
92 gagccactga ccttggtcct ccttagagga atttcctcga gaacaacaga gataagaaaa 720
94 gaaccggcct ggccaatcct tcaacagctc taga 754
97 <210> SEQ ID NO: 3
98 <211> LENGTH: 1292
99 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
102 <220> FEATURE:
103 <221> NAME/KEY: misc_feature
104 <222> LOCATION: (1244)..(1244)
105 <223> OTHER INFORMATION: n is a,c,g, or t
107 <220> FEATURE:
108 <221> NAME/KEY: misc_feature
109 <222> LOCATION: (1251)..(1251)
110 <223> OTHER INFORMATION: n is a,c,g, or t
112 <400> SEQUENCE: 3
113 cggcacgagg gagatgatga gttgctgagt gtgcacacct ttccggaaca catacacaca 60
115 cctgtctctg ggatcccttg tgaggctgcc ctcatggagt tccccctggc ccagatatgt 120
117 ccccaagcac cttccagatc acagacatga cccgcaggag ctgccagaac ctgggctaca 180
119 ctgcggcac tcgccaggcc ccggaggctg cctccagcac agggaaatgct gagagggcag 240
121 aggaggtgcc tggagaagga agcctgttcc tgcaggccga gacccgggct tggttccaga 300
123 agaccagggc ccactggctc ctgcagcac gggcagcccc tgctgtgttc catggcttca 360
125 tcaccgggag ggaggcagag aggtctgtgg agcccaagcc tcaggggtgc tacttggtgc 420
127 ggttcagcga gagcgcggtg accttcgtgc tgacttacag gagccggact tgctgccgcc 480
129 acttctgtct ggcccagctc agggacgggc gccacgtggt gctgggcgag gacagcgccc 540
131 acgcgcggct gcaggacctg ctgctgcaat acaccgcgca ccgcctcagc ccctacgggg 600
133 agacgctcac cgagcccttc gcccgacaga ctctgagcc tgcaggactt tccctgagga 660
135 ccgaagaatc aaactttgga agcaaaagcc aggacccaaa cccccagtag agcccaatca 720
137 tcaaacaggg gcaagcccca gtcccgatgc agaaagaggg ggccggggag aaggagccct 780
139 cccagctgct caggcccaag cctcccatcc ccgccaacc tcagctgccc ccagaagtct 840
141 acacaatccc tgttccacga caccgcccgg ccccaagccc caagccctcc aatcctatct 900
143 acaatgagcc tgatgaaccc atagctttct atgccaatgg ccggggcagc cctggggaag 960
145 cccccagcaa catctatgtg gaagtggaag atgagggcct acccgccacc cttgggcacc 1020
147 ctgtcctacg gaagagctgg tccaggcctg tccaggagg ccagaatata ggtggctccc 1080
149 agctgcattc tgagaactct gtgattgggc aaggccctcc cctgccccac cagccccac 1140
151 ccgcctggag acacaccctc ccccaaatc tttctagaca ggtgcttcag gacagaggac 1200
153 aggcattggt tccccttggg cctcctcagt aggcggtaag tctnagcttt ngtgaggata 1260
155 actttggagc atcaggttcc agagacctt ca 1292
158 <210> SEQ ID NO: 4
159 <211> LENGTH: 1323

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,676

DATE: 11/13/2002

TIME: 16:33:51

Input Set : D:\pat.ST25.txt

Output Set: N:\CRF4\11132002\I724676.raw

160 <212> TYPE: DNA
 161 <213> ORGANISM: Homo sapiens
 163 <220> FEATURE:
 164 <221> NAME/KEY: misc_feature
 165 <222> LOCATION: (1275)..(1275)
 166 <223> OTHER INFORMATION: n is a,c,g, or t
 168 <220> FEATURE:
 169 <221> NAME/KEY: misc_feature
 170 <222> LOCATION: (1282)..(1282)
 171 <223> OTHER INFORMATION: n is a,c,g, or t
 173 <400> SEQUENCE: 4

174	cggcacgagg	gagatgatga	gttgctgagt	gtgcacacct	ttccggaaca	catacacaca	60
176	ccctgctctg	ggatcccttg	tgaggctgcc	ctcatggagt	tccccctggc	ccagatatgt	120
178	ccccaaagga	gtcacgaagc	ccccatccca	accttcagca	ccttccagat	cacagacatg	180
180	accgcgagga	gctgccagaa	cctgggctac	actgcggcat	ctccccaggc	cccggaggct	240
182	gcctccagca	cagggaatgc	tgagagggca	gaggagggtg	ctggagaagg	aagcctgttc	300
184	ctgcaggccg	agaccggg	ttggttccag	aagaccag	cccactggct	cctgcagcac	360
186	ggggcagccc	ctgcctggtt	ccatggcttc	atcaccggga	gggaggcaga	gaggctgctg	420
188	gagcccaagc	ctcaggggtg	ctacttggtg	cggttcagcg	agagcgcggt	gaccttcgtg	480
190	ctgacttaca	ggagccggac	ttgtgcccgc	cacttcctgc	tggcccagct	cagggacggg	540
192	cgccacgtgg	tgctgggcga	ggacagcgcc	cacgcgcggc	tgcaggacct	gctgctgcac	600
194	tacaccgcgc	accgcctcag	cccctacggg	gagacgctca	ccgagcccct	cgcccgacag	660
196	actcctgagc	ctgcaggact	ttccctgagg	accgaagaat	caaactttgg	aagcaaaagc	720
198	caggacccaa	acccccagta	cagcccaatc	atcaaacagg	ggcaagcccc	agtcccgatg	780
200	cagaaagagg	gggcccggga	gaaggagccc	tcccagctgc	tcaggcccaa	gcctcccatc	840
202	cccgcctaac	ctcagctgcc	cccagaagtc	tacacaatcc	ctgttccacg	acaccgcccg	900
204	gccccacgcc	caaagccctc	caatcctatc	tacaatgagc	ctgatgaacc	catagctttc	960
206	tatgccatgg	gccggggcag	ccctggggaa	gccccagca	acatctatgt	ggaagtggaa	1020
208	gatgagggcc	taccgcgcac	ccttggggcac	cctgtcctac	ggaagagctg	gtccaggcct	1080
210	gtcccaggag	gccagaatac	aggtggctcc	cagctgcatt	ctgagaactc	tgtgattggg	1140
212	caaggccctc	ccctgcccc	ccagccccca	cccgcctgga	gacacaccct	cccccaaat	1200
214	ctttctagac	aggtgcttca	ggacagagga	caggcatggc	ttccccttgg	gcctcctcag	1260
216	taggcggtaa	gtctnagctt	tngtgaggat	aactttggag	catcaggttc	cagagacctt	1320
218	tca						1323

221 <210> SEQ ID NO: 5
 222 <211> LENGTH: 2119
 223 <212> TYPE: DNA
 224 <213> ORGANISM: Homo sapiens
 226 <400> SEQUENCE: 5

227	accgccacca	tgaacaagct	ttacatcggc	aacctcaacg	agagcgtgac	ccccgcggac	60
229	ttggagaaa	tgtttgcgga	gcacaagatc	tcctacagcg	gccagttctt	ggtcaaatec	120
231	ggctacgcct	tcgtggactg	cccggacgag	cactgggcga	tgaaggccat	cgaaactttc	180
233	tccgggaaa	tagaattaca	aggaaaacgc	ttagagattg	aacattcggt	gccccaaaaa	240
235	caaaggagcc	ggaaaattca	aatccgaaat	attccacccc	agctccgatg	ggaagtactg	300
237	gacagcctgc	tggtcagta	tggtacagta	gagaactgtg	agcaagtga	caccgagagt	360
239	gagacggcag	tggtgaatgt	cacctattcc	aaccgggagc	agaccaggca	agccatcatg	420
241	aagctgaatg	gccaccagtt	ggagaacat	gccctgaagg	tctcctacat	ccccgatgag	480
243	cagatagcac	agggacctga	gaatgggcgc	cgagggggct	ttggctctcg	gggtcagccc	540
245	cgccaggctc	accttgtggc	agcggggggc	cagccaagca	gcagcaagtg	gacatcccc	600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,676

DATE: 11/13/2002

TIME: 16:33:51

Input Set : D:\pat.ST25.txt

Output Set: N:\CRF4\11132002\I724676.raw

```

247 ttcggtcctt ggtgcccacc cagtatgtgg gtgccattat tggcaaggag ggggccacca 660
249 tccgcaacat cacaaaacag acccagtcca agatagacgt gcataggaag gagaacgcag 720
251 gtgcagctga aaaagccatc agtgtgcact ccaccctga gggctgctcc tccgcttgta 780
253 agatgatctt ggagattatg cataaagagg ctaaggacac caaaacggct gacgagggttc 840
255 ccctgaagat cctggcccat aataactttg tagggcgtct cattggcaag gaaggacgga 900
257 acctgaagaa ggtagagcaa gataccgaga caaaaatcac catctcctcg ttgcaagacc 960
259 ttacccttta caaccctgag aggaccatca ctgtgaaggg ggccatcgag aattgttgca 1020
261 gggccgagca ggaaataatg aagaaagttc gggaggccta tgagaatgat gtggctgcca 1080
263 tgagcctgca gtctcacctg atccctggcc tgaacctggc tgctgtaggc cttttccag 1140
265 cttcatccag cgcagtcocg ccgcctccca gcagcgttac tggggctgct ccctatagct 1200
267 cctttatgca ggtcccgag caggagatgg tgcaagggtt tatccccgcc caggcagtgg 1260
269 gcgccatcat cggcaagaag gggcagcaca tcaaacagct ctcccggttt gccagcgct 1320
271 ccatcaagat tgcaccaccc gaaacacctg actccaaagt tcgtatgggt atcatcactg 1380
273 gaccgccaga ggcccaattc aagggtctcc agtatgatag ctaagcagaa ggaaagctga 1440
275 caagctgccc acttgagcct tgcccttcac ctgccttaga tggtcaggg aagaatctat 1500
277 ggcaaactca aggaggagaa cttctttggt cccaaggagg aagtgaagct ggagaccac 1560
279 atacgtgtgc cagcatcagc agctggccgg gtcattggca aagggtgaaa aacggtgaac 1620
281 gagttgcaga atttgacggc agctgagggt gtagtaccaa gagaccagac ccctgatgag 1680
283 aacgaccagg tcatcgtgaa aatcatcgga catttctatg ccagtcagat ggctcaacgg 1740
285 aagatccgag acatcctggc ccagggttaag cagcagaaat cgagagtgtg ctctccccgg 1800
287 caggcctgag aatgagtggg aatccgggac acctggggcc ggctgtagat caggtttgcc 1860
289 cacttgattg agaaagatgt tccagtgagg aacctgate tctcagcccc aaacacccac 1920
291 ccaattggcc caacactgtc tgccctcgg ggtgtcagaa attctagcgc aaggcacttt 1980
293 taaacgtgga ttgtttaaag aagctctcca ggccccacca agagggtgga tcacacctca 2040
295 gtgggaagaa aaataaaatt tccttcaggt tttaaaaaca tgcagagagg tgttttaac 2100
297 agccttaaag gatggttca 2119
300 <210> SEQ ID NO: 6
301 <211> LENGTH: 2040
302 <212> TYPE: DNA
303 <213> ORGANISM: Homo sapiens
305 <400> SEQUENCE: 6
306 accgccacca tgaacaagct ttacatcggc aacctcaacg agagcgtgac ccccgcgagc 60
308 ttggagaaag tgtttgcgga gcacaagatc tctacagcg gccagttctt ggtcaaatcc 120
310 ggctacgcct tcgtggaactg cccggacgag cactgggcga tgaaggccat cgaaactttc 180
312 tccgggaaag tagaattaca aggaaaacgc ttagagattg aacattcggg gcccaaaaaa 240
314 caaaggagcc ggaaaattca aatccgaaat attccacccc agctccgatg ggaagtactg 300
316 gacagcctgc tggctcagta tggtagagta gagaactgtg agcaagtga caccgagagt 360
318 gagacggcag tgggtgaatgt cacctattcc aaccgggagc agaccaggca agccatcatg 420
320 aagctgaatg gccaccagtt ggagaacat gccctgaagg tctctacat ccccgatgag 480
322 cagatagcac agggacctga gaatgggcgc cgagggggct ttggctctcg gggtcagccc 540
324 cgccaggctc accttgtggc agcgggggccc cagccaagca gcagcaagtg gacatcccc 600
326 ttcggtcctt ggtgcccacc cagtatgtgg gtgccattat tggcaaggag ggggccacca 660
328 tccgcaacat cacaaaacag acccagtcca agatagacgt gcataggaag gagaacgcag 720
330 gtgcagctga aaaagccatc agtgtgcact ccaccctga gggctgctcc tccgcttgta 780
332 agatgatctt ggagattatg cataaagagg ctaaggacac caaaacggct gacgagggttc 840
334 ccctgaagat cctggcccat aataactttg tagggcgtct cattggcaag gaaggacgga 900
336 acctgaagaa ggtagagcaa gataccgaga caaaaatcac catctcctcg ttgcaagacc 960
338 ttacccttta caaccctgag aggaccatca ctgtgaaggg ggccatcgag aattgttgca 1020
340 gggccgagca ggaaataatg aagaaagttc gggaggccta tgagaatgat gtggctgcca 1080

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,676

DATE: 11/13/2002

TIME: 16:33:51

Input Set : D:\pat.ST25.txt

Output Set: N:\CRF4\11132002\I724676.raw

```

342  tgagcctgca  gtctcacctg  atccctggcc  tgaacctggc  tgctgtaggt  cttttcccag  1140
344  cttcatccag  cgcagtcccg  ccgcctccca  gcagcgttac  tggggctgct  ccctatagct  1200
346  cctttatgca  ggctcccag  caggagatgg  tgcaggtggt  tatccccgcc  caggcagtgg  1260
348  gcgccatcat  cggcaagaag  gggcagcaca  tcaaacagct  ctcccggttt  gccagcgct  1320
350  ccatcaagat  tgcaccaccc  gaaacacctg  actccaaagt  tcgtatgggt  atcatcactg  1380
352  gaccgccaga  ggcccaattc  aaggctcagg  gaagaatcta  tggcaaactc  aaggaggaga  1440
354  acttctttgg  tcccaaggag  gaagtgaagc  tggagacca  catacgtgtg  ccagcatcag  1500
356  cagctggccg  ggtcattggc  aaaggtggaa  aaacggtgaa  cgagttgcag  aatttgacgg  1560
358  cagctgaggt  ggtagtacca  agagaccaga  cccctgatga  gaacgaccag  gtcacgtga  1620
360  aaatcatcgg  acatttctat  gccagtcaga  tggctcaacg  gaagatccga  gacatcctgg  1680
362  cccaggttaa  gcagcagaaa  tcgagagtgt  gctctccccg  gcaggcctga  gaatgagtgg  1740
364  gaatccggga  cacctgggcc  gggctgtaga  tcaggtttgc  ccacttgatt  gagaaagatg  1800
366  ttccagtgg  gaacctgat  ctctcagccc  caaacacca  cccaattggc  ccaacactgt  1860
368  ctgcccctcg  ggggtgtcaga  aattctagcg  caaggcactt  ttaaactggg  attgtttaaa  1920
370  gaagctctcc  aggccccacc  aagagggtgg  atcacacctc  agtgggaaga  aaaataaaat  1980
372  ttccctcagg  ttttaaaaac  atgcagagag  gtgttttaat  cagccttaaa  ggatggttca  2040
375  <210> SEQ ID NO: 7
376  <211> LENGTH: 1990
377  <212> TYPE: DNA
378  <213> ORGANISM: Homo sapiens
380  <400> SEQUENCE: 7
381  accgccacca  tgaacaagct  ttacatcgcc  aacctcaacg  agagcgtgac  ccccgcgac  60
383  ttggagaaag  tgtttgcgga  gcacaagatc  tcctacagcg  gccagttctt  ggtcaaatcc  120
385  ggctacgcct  tcgtggactg  cccggacgag  cactgggcga  tgaaggccat  cgaaactttc  180
387  tccgggaaag  tagaattaca  aggaaaacgc  ttagagattg  aacattcggg  gccccaaaaa  240
389  caaaggagcc  ggaaaattca  aatccgaaat  attccacccc  agctccgatg  ggaagtactg  300
391  gacagcctgc  tggtcagta  tggtacagta  gagaactgtg  agcaagtga  caccgagagt  360
393  gagacggcag  tggatgaatg  cacctattcc  aaccgggagc  agaccaggca  agccatcatg  420
395  aagctgaatg  gccaccagtt  ggagaacccat  gccctgaagg  tctcctacat  ccccgatgag  480
397  cagatagcac  agggacctga  gaatgggcgc  cgagggggct  ttggtctctg  gggtcagccc  540
399  cgcaggctc  acctgtggc  agcggggggc  cagccaagca  gcagcaagtg  gacatcccc  600
401  ttcggtcct  ggtgcccacc  cagtattgtg  gtgccattat  tggcaaggag  ggggccacca  660
403  tccgcaacat  cacaaaacag  acccagtcga  agatagacgt  gcataggaag  gagaacgcag  720
405  gtgcagctga  aaaagccatc  agtgtgcaact  ccaccctga  gggctgctcc  tccgcttgta  780
407  agatgatctt  ggagattatg  cataaagagg  ctaaggacac  caaaacggct  gacgaggttc  840
409  ccctgaagat  cctggcccat  aataactttg  tagggcgtct  cattggcaag  gaaggacgga  900
411  acctgaagaa  ggtagagcaa  gataccgaga  caaaaatcac  catctcctcg  ttgcaagacc  960
413  ttacccttta  caaccctgag  aggaccatca  ctgtgaaggg  ggccatcgag  aattgttgca  1020
415  gggccgagca  ggaaataatg  aagaaagtcc  gggaggccta  tgagaatgat  gtggctgcca  1080
417  tgagcctgca  gtctcacctg  atccctggcc  tgaacctggc  tgctgtaggt  cttttcccag  1140
419  cttcatccag  cgcagtcccg  ccgcctccca  gcagcgttac  tggggctgct  ccctatagct  1200
421  cctttatgca  ggctcccag  caggagatgg  tgcaggtggt  tatccccgcc  caggcagtgg  1260
423  gcgccatcat  cggcaagaag  gggcagcaca  tcaaacagct  ctcccggttt  gccagcgct  1320
425  ccatcaagat  tgcaccaccc  gaaacacctg  actccaaagt  tcgtatgggt  atcatcactg  1380
427  gaccgccaga  ggcccaattc  aaggctcagg  gaagaatcta  tggcaaactc  aaggaggaga  1440
429  acttctttgg  tcccaaggag  gaagtgaagc  tggagacca  catacgtgtg  ccagcatcag  1500
431  cagctggccg  ggtcattggc  aaaggtggaa  aaacggtgaa  cgagttgcag  aatttgacgg  1560
433  cagctgaggt  ggtagtacca  agagaccaga  cccctgatga  gaacgaccag  gtcacgtga  1620
435  aaatcatcgg  acatttctat  gccagtcaga  tggctcaacg  gaagatccga  gacatcctgg  1680

```